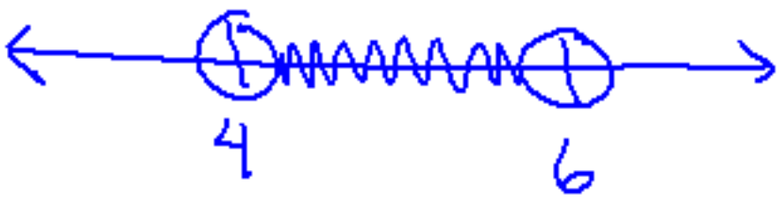
1) $x = 2, -8$

2) $t = 10, 6$

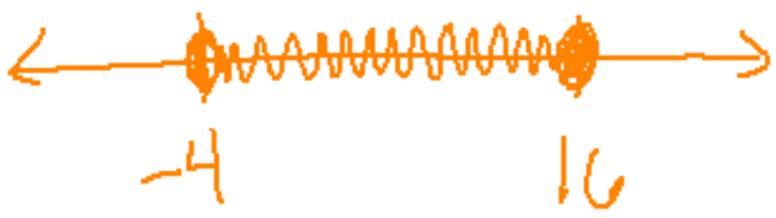
3) $x = 0, 7$

4) $x < 6 \quad x > 4$



5) $x \geq -5 \quad x \leq -11$

6) $x \leq 16 \quad x \geq -4$



7) $x \geq 0 \quad x \leq 0$

all real #'s

*8) $x \leq -7 \quad x \geq 3$

9) $x = -12, 15$

10) $x \leq -24 \quad x \geq 36$

② $\frac{1}{2}t - 4 = 1$

$t = 10$

$-(\frac{1}{2}t - 4) = 1$

$-\frac{1}{2}t + 4 = 1$

$-2(-\frac{1}{2}t) = (-3)\ -2$

$t = 6$

$\frac{1}{2}t - 4 = -1$

(3)

$|2x-7| = 7$

$2x-7=7$

$2x=14$

$\boxed{x=7}$

$-(2x-7)=7$

$-2x+7=7$

$-2x=0$

$\boxed{x=0}$

⑨ $|1 - \frac{2}{3}x| = 9$

$1 - \frac{2}{3}x = 9$

$-\frac{2}{3}x = 8$

$x = -12$

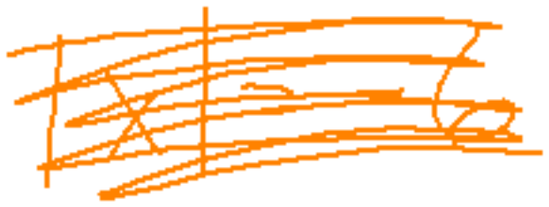
$-(1 - \frac{2}{3}x) = 9$

$-1 + \frac{2}{3}x = 9$

$\frac{2}{3}x = 10$

$x = 15$

$$|x+2| \leq -5$$



no solution

42
39

(39) $-5 \leq -n-6 \leq 0$

$+6 \quad +6 \quad +6$

$\frac{1 \leq -n}{-1} \leq \frac{6}{-1}$

$-1 \geq n \geq -6$

$-6 \leq n \leq -1$

(42) $-8 < \frac{2}{3}x - 4 < 10$

$+4 \qquad +4 \qquad +4$

$\frac{-4 < \frac{2}{3}x < 14}{\frac{2}{3} \qquad \frac{2}{3} \qquad \frac{2}{3}}$

$-6 < x < 21$

1st

#1, 5, 9, 13, 17

2nd

#1, 5, 9, 11, 15, 19

$$\frac{2\cdot|x+3|}{2} \leq \frac{6}{2}$$

$$|2x-7|+3=10$$

$$-3 \quad -3$$

13) $\frac{|a-5|}{8} = (5) \cdot 8$

$|a-5| = 40$

$a-5 = 40$ $\qquad$ $-(a-5) = 40$

$a = 45$ $\qquad$ $-a+5 = 40$

$-a = 35$

$a = -35$

(21) $\frac{10|10n-8|}{10} \leq \frac{80}{10}$

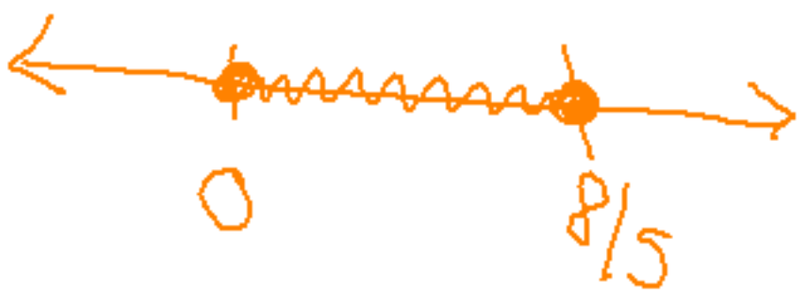
$|10n-8| \leq 8$

$10n-8 \leq 8$ $\quad -(10n-8) \leq 8$

$10n \leq 16$ $\quad -10n+8 \leq 8$

$n \leq \frac{8}{5}$ $\quad -10n \leq 0$

$n \geq 0$



(22) $\frac{|4m+1|}{7} \leq \frac{1 \cdot 7}{7}$

$|4m+1| \leq 7$

$4m+1 \leq 7$ $\quad -(4m+1) \leq 7$

$4m \leq 6$ $\quad -4m-1 \leq 7$

$m \leq \frac{3}{2}$ $\quad -4m \leq 8$

$m \geq -2$